Filing date: January 16, 2004 Applicant Name: Bazan et al. Examiner: Camie S. Thompson Art Unit: 1774

AMENDMENTS TO THE CLAIMS

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This listing of claims will replace all prior versions, and listings, of claims in the application:

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Listing of Claims:

Claim 1 (canceled)

Claims 2 and 3 (canceled)

Claim 4 (currently amended) A binaphtyl binaphthyl compound of the formula:

$$(X^{1})_{n}^{1}$$
 $(X^{2})_{n}^{2}$ Ar^{2}

wherein each Ar^1 and Ar^2 is independently a substituted or non-substituted polycyclic aromatic hydrocarbon or a substituted or non-substituted aromatic heterocycle, each X^1 and X^2 is independently a substituted or non-substituted aromatic hydrocarbon, each n^1 and n^2 is independently 0 or 1, each R^1 and R^2 is independently a hydroxyl group, a substituted or non-substituted alkyl group, or a substituted or non-substituted alkoxy group, wherein R^1 and R^2 can be bound to each other to form a ring structure wherein the ring structure can have substituent groups, and wherein the compound's binaphtyl binaphtyl framework can be independently substituted by a halogen, a hydroxyl group, or a substituted or non-substituted alkyl, alkenyl, alkoxy or alkoxycarbonyl group at any position except those occupied by $(X^1)n^1Ar^1$, $(X^2)n^2Ar^2$, R^1 and R^2 .

Claim 5 (currently amended) The binaphtyl binaphthyl l compound of claim 4 wherein each R¹ and R² is an alkoxy group.

Claims 6 - 11 (canceled)

Claim 12 (currently amended) An organic light emitting device comprising an anode and a cathode, and an emissive layer between the anode and cathode, the device including a layer between the emissive layer and the cathode comprising the binaphtyl binaphthyl compound of claim 4.

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Claim 13 (currently amended) An organic light emitting device comprising an anode and a cathode, and an emissive layer between the anode and cathode, the device including a hole-blocking layer between the emissive layer and the cathode comprising a binaphtyl binaphthyl compound of the formula:

$$(x^{1})_{n^{1}} \qquad (x^{2})_{n^{2}}$$

$$Ar^{1}$$

wherein each Ar^1 and Ar^2 is independently a substituted or non-substituted polycyclic aromatic hydrocarbon or a substituted or non-substituted aromatic heterocycle, each X^1 and X^2 is independently a substituted or non-substituted aromatic hydrocarbon, each n^1 and n^2 is independently 0 or 1, and wherein the compound's binaphtyl binaphthyl framework can be independently substituted at any position except those occupied by $(X^1)n^1Ar^1$ and $(X^2)n^2Ar^2$.

Claim 14 (currently amended) An organic light emitting device comprising an anode and a cathode, and an emissive layer between the anode and cathode, the device including a hole-blocking layer between the emissive layer and the cathode comprising a binaphtyl binaphthyl compound of the formula:

$$(X^{1})_{n}^{1}$$
 $(X^{2})_{n}^{2}$ Ar^{2}

wherein each Ar^1 and Ar^2 is independently a substituted or non-substituted polycyclic aromatic hydrocarbon or a substituted or non-substituted aromatic heterocycle, each X^1 and X^2 is independently a substituted or non-substituted aromatic hydrocarbon, each n^1 and n^2 is

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independently 0 or 1, each R^1 and R^2 is independently a hydroxyl group, a substituted or non-substituted alkyl group, or a substituted or non-substituted alkoxy group, wherein R^1 and R^2 can be bound to each other to form a ring structure wherein the ring structure can have substituent groups, and wherein the compound's binaphtyl binaphthyl framework can be independently substituted by a halogen, a hydroxyl group, or a substituted or non-substituted alkyl, alkenyl, alkoxy or alkoxycarbonyl group at any position except those occupied by $(X^1)n^1Ar^1$, $(X^2)n^2Ar^2$, R^1 and R^2 .

Claim 15 (currently amended) An organic light emitting device comprising an anode and a cathode, and an emissive layer between the anode and cathode, the device including a hole-blocking layer between the emissive layer and the cathode comprising a binaphthyl compound of the formula:

$$(X^{1})_{n}^{1}$$
 $(X^{2})_{n}^{2}$ Ar^{2}

wherein each Ar^1 and Ar^2 is independently a substituted or non-substituted polycyclic aromatic hydrocarbon or a substituted or non-substituted aromatic heterocycle, each X^1 and X^2 is independently a substituted or non-substituted aromatic hydrocarbon, each n^1 and n^2 is independently 0 or 1, each R^1 and R^2 is independently a hydroxyl group, a substituted or non-substituted alkyl group, or a substituted or non-substituted alkoxy group, wherein R^1 and R^2 can be bound to each other to form a ring structure wherein the ring structure can have substitutent groups, and wherein the compound's binaphthyl framework can be independently substituted by a halogen, a hydroxyl group, or a substituted or non-substituted alkyl, alkenyl, alkoxy or alkoxycarbonyl group at any position except those occupied by $(X^1)n^1Ar^1$, $(X^2)n^2Ar^2$, R^1 and R^2 ;

The organic light emitting device of claim 14 in which the hole-blocking layer between the emissive layer and the cathode comprises a compound of the formula:

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Claims 16 and 17 (canceled)

Claim 18 (currently amended) A binaphtyl binaphthyl compound of the formula:

$$(x^1)_{n^1} \qquad (x^2)_{n^2}$$

$$Ar^1$$

wherein each Ar^1 and Ar^2 is independently a three, four or five-condensed aromatic ring, each X^1 and X^2 is independently a substituted or non-substituted aromatic hydrocarbon, each n^1 and n^2 is independently 0 or 1, and wherein the compound's binaphtyl binaphthyl framework can be independently substituted at any position except those occupied by $(X^1)n^1Ar^1$ and $(X^2)n^2Ar^2$.

Claim 19 (currently amended) An organic light emitting device having an anode and cathode and an emissive layer between the anode and cathode, the emissive layer comprising:

a binaphtyl binaphthyl compound of the formula:

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$$(x^{1})_{n^{1}} (x^{2})_{n^{2}}$$
Ar¹

wherein each Ar^1 and Ar^2 is independently a three, four or five-condensed aromatic ring, each X^1 and X^2 is independently a substituted or non-substituted aromatic hydrocarbon, each n^1 and n^2 is independently 0 or 1, and wherein the compound's binaphtyl binaphthyl framework can be independently substituted at any position except those occupied by $(X^1)n^1Ar^1$ and $(X^2)n^2Ar^2$; and

fac-tris(2-phenylpyridine) iridium(III) as a phosphorescent dye dopant.

Claim 20. (currently amended) A binaphtyl binaphthyl compound of the formula

Claim 21. (currently amended) A binaphtyl binaphtyl compound of the formula

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Claim 22. (previously presented)) The organic light emitting device of claim 14 in which the hole-blocking layer between the emissive layer and the cathode comprises a compound of the formula:

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Claim 23 (new) A binaphthyl compound of the formula:

$$Ar^1$$
 R^2 Ar^2

wherein each Ar^1 and Ar^2 is independently a substituted or non-substituted polycyclic aromatic hydrocarbon or a substituted or non-substituted aromatic heterocycle, each X^1 -and X^2 -is independently a substituted or non-substituted aromatic hydrocarbon, each n^1 and n^2 is independently 0 or 1, each R^1 and R^2 is independently a hydroxyl group, a substituted or non-substituted alkyl group, or a substituted or non-substituted alkoxy group, wherein R^1 and R^2 can be bound to each other to form a ring structure wherein the ring structure can have substituted groups, and wherein the compound's binaphthyl framework can be independently substituted by a halogen, a hydroxyl group, or a substituted or non-substituted alkyl, alkenyl, alkoxy or alkoxycarbonyl group at any position except those occupied by $(X^1)n^1Ar^1$, $(X^2)n^2Ar^2$, R^1 and R^2